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#8



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See page 6

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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/050,902

DATE: 01/23/2003
 TIME: 12:20:04

Input Set : A:\1700.0190004seqlist.txt
 Output Set: N:\CRF4\01232003\J050902.raw

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5 <110> APPLICANT: Renner, Wolfgang A.
6   Bachmann, Martin
7   Tissot, Alain
8   Maurer, Patrick
9   Lechner, Franziska
10  Sebbel, Peter
11  Piossek, Christine
13 <120> TITLE OF INVENTION: Molecular Antigen Array
15 <130> FILE REFERENCE: 1700.0190004
17 <140> CURRENT APPLICATION NUMBER: 10/050,902
18 <141> CURRENT FILING DATE: 2002-01-18
20 <150> PRIOR APPLICATION NUMBER: US 60/262,379
21 <151> PRIOR FILING DATE: 2001-01-19
23 <150> PRIOR APPLICATION NUMBER: US 60/288,549
24 <151> PRIOR FILING DATE: 2001-05-04
26 <150> PRIOR APPLICATION NUMBER: US 60/326,998
27 <151> PRIOR FILING DATE: 2001-10-05
29 <150> PRIOR APPLICATION NUMBER: US 60/331,045
30 <151> PRIOR FILING DATE: 2001-11-07
32 <160> NUMBER OF SEQ ID NOS: 350
34 <170> SOFTWARE: PatentIn Ver. 2.1
36 <210> SEQ ID NO: 1
37 <211> LENGTH: 41
38 <212> TYPE: DNA
39 <213> ORGANISM: Artificial Sequence
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Primer
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49 <211> LENGTH: 44
50 <212> TYPE: DNA
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Primer
56 <400> SEQUENCE: 2
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60 <210> SEQ ID NO: 3
61 <211> LENGTH: 20
62 <212> TYPE: DNA
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: Primer

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74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Primer
80 <400> SEQUENCE: 4                                     25
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85 <211> LENGTH: 47
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Primer
92 <400> SEQUENCE: 5                                     47
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96 <210> SEQ ID NO: 6
97 <211> LENGTH: 40
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Primer
104 <400> SEQUENCE: 6                                     40
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109 <211> LENGTH: 90
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Primer
116 <400> SEQUENCE: 7
117 gggcttagat tcccaaccat tcccttatcc aggcttttg acaacgctat gctccgcgc 60
118 catcgtctgc accagctggc ctttgacacc                                     90
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122 <211> LENGTH: 108
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Primer
129 <400> SEQUENCE: 8
130 gggcttagaa ggaggtaaaa aacgatgaaa aagacagcta tcgcgattgc agtggactg 60
131 gctggtttcg ctaccgttagc gcaggcattc ccaaccattc ctttatcc           108
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135 <211> LENGTH: 31
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:

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140 <223> OTHER INFORMATION: Primer
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143 cccgaattcc tagaagccac agctgccctc c 31
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149 <213> ORGANISM: Artificial Sequence
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154 <400> SEQUENCE: 10
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158 <210> SEQ ID NO: 11
159 <211> LENGTH: 41
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Primer
166 <400> SEQUENCE: 11
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172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Primer
178 <400> SEQUENCE: 12
179 ctatcatcta gaatgaatag aggattttt aac 33
182 <210> SEQ ID NO: 13
183 <211> LENGTH: 15
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Modified ribosome binding site
190 <400> SEQUENCE: 13
191 aggaggtaaa aaacg 15
194 <210> SEQ ID NO: 14
195 <211> LENGTH: 21
196 <212> TYPE: PRT
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: signal peptide
202 <400> SEQUENCE: 14
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204 1 5 10 15
206 Thr Val Ala Gln Ala
207 20
210 <210> SEQ ID NO: 15
211 <211> LENGTH: 46
212 <212> TYPE: PRT

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RAW SEQUENCE LISTING
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213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: modified Fos construct
218 <400> SEQUENCE: 15
219 Cys Gly Gly Leu Thr Asp Thr Leu Gln Ala Glu Thr Asp Gln Val Glu
220 1 5 10 15
222 Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu
223 20 25 30
225 Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala His Gly Gly Cys
226 35 40 45
229 <210> SEQ ID NO: 16
230 <211> LENGTH: 6
231 <212> TYPE: PRT
232 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: peptide linker
237 <400> SEQUENCE: 16
238 Ala Ala Ala Ser Gly Gly
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242 <210> SEQ ID NO: 17
243 <211> LENGTH: 6
244 <212> TYPE: PRT
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: peptide linker
250 <400> SEQUENCE: 17
251 Gly Gly Ser Ala Ala Ala
252 1 5
255 <210> SEQ ID NO: 18
256 <211> LENGTH: 256
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Fos fusion construct
263 <400> SEQUENCE: 18
264 gaattcagga ggtaaaaaac gatgaaaaag acagctatcg cgattgcagt ggcactggct 60
265 ggtttcgcta ccgttagcgca ggcctgggtg ggggcggccg cttctggtg ttgcgggtgg 120
266 ctgaccgaca ccctgcaggc ggaaaccgac caggtggaaag acgaaaaatc cgcgctgcaa 180
267 accgaaatcg cgaacctgct gaaaagaaaaa gaaaagctgg agttcatcct ggcggcacac 240
268 ggtgggttgct aagctt 256
271 <210> SEQ ID NO: 19
272 <211> LENGTH: 52
273 <212> TYPE: PRT
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Fos fusion construct
279 <400> SEQUENCE: 19
280 Ala Ala Ala Ser Gly Gly Cys Gly Leu Thr Asp Thr Leu Gln Ala
281 5 10 15

RAW SEQUENCE LISTING
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Input Set : A:\1700.0190004seqlist.txt
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283 Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile
 284 20 25 30
 286 Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala
 287 35 40 45
 289 His Gly Gly Cys
 290 50
 294 <210> SEQ ID NO: 20
 295 <211> LENGTH: 261
 296 <212> TYPE: DNA
 297 <213> ORGANISM: Artificial Sequence
 299 <220> FEATURE:
 300 <223> OTHER INFORMATION: Fos fusion construct
 303 <220> FEATURE:
 304 <221> NAME/KEY: CDS
 305 <222> LOCATION: (22)..(240)
 307 <400> SEQUENCE: 20
 308 gaattcagga ggtaaaaaac g atg aaa aag aca gct atc gcg att gca gtg 51
 309 Met Lys Lys Thr Ala Ile Ala Ile Ala Val
 310 1 5 10
 312 gca ctg gct ggt ttc gct acc gta gcg cag gcc tgc ggt ggt ctg acc 99
 313 Ala Leu Ala Gly Phe Ala Thr Val Ala Gln Ala Cys Gly Gly Leu Thr
 314 15 20 25
 316 gac acc ctg cag gcg gaa acc gac cag gtg gaa gac gaa aaa tcc gcg 147
 317 Asp Thr Leu Gln Ala Glu Thr Asp Gln Val Glu Asp Glu Lys Ser Ala
 318 30 35 40
 320 ctg caa acc gaa atc gcg aac ctg ctg aaa gaa aaa gaa aag ctg gag 195
 321 Leu Gln Thr Glu Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu
 322 45 50 55
 324 ttc atc ctg gcg gca cac ggt ggt tgc ggt ggt tct gcg gcc gct 240
 325 Phe Ile Leu Ala Ala His Gly Gly Cys Gly Ser Ala Ala Ala
 326 60 65 70
 328 gggtgtgggg atatcaagct t 261
 331 <210> SEQ ID NO: 21
 332 <211> LENGTH: 73
 333 <212> TYPE: PRT
 334 <213> ORGANISM: Artificial Sequence
 336 <220> FEATURE:
 337 <223> OTHER INFORMATION: Fos fusion construct
 339 <400> SEQUENCE: 21
 340 Met Lys Thr Ala Ile Ala Val Ala Leu Ala Gly Phe Ala
 341 1 5 10 15
 343 Thr Val Ala Gln Ala Cys Gly Gly Leu Thr Asp Thr Leu Gln Ala Glu
 344 20 25 30
 346 Thr Asp Gln Val Glu Asp Glu Lys Ser Ala Leu Gln Thr Glu Ile Ala
 347 35 40 45
 349 Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala His
 350 50 55 60
 352 Gly Gly Cys Gly Gly Ser Ala Ala Ala
 353 65 70

RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : A:\1700.0190004seqlist.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:111; Xaa Pos. 28
Seq#:283; N Pos. 9872

VERIFICATION SUMMARY

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Input Set : A:\1700.0190004seqlist.txt

Output Set: N:\CRF4\01232003\J050902.raw

L:2382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:16
L:5203 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (177) SEQUENCE:
L:9586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:283 after pos.:9840